

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/610,313
				Filing Date	July 5, 2000
				First Named Inventor	Susan BARNETT
				Art Unit	1635
				Examiner Name	J. E. Angell
Sheet	1	of	5	Attorney Docket Number	PAT051386-US-CIP01

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	US-4,652,639-A	03-24-1987	Stabinsky	
	2.	US-4,861,707-A	08-29-1989	Ivanoff et al.	
	3.	US-5,082,767-A	01-21-1992	Hatfield et al.	
	4.	US-5,130,247-A	07-14-1992	Kniskern et al.	
	5.	US-5,156,949-A	10-20-1992	Luciw et al.	
	6.	US-5,688,688-A	11-18-1997	Luciw et al.	
	7.	US-5,786,464-A	07-28-1998	Seed	
	8.	US-5,792,459-A	08-11-1998	Haigwood	
	9.	US-5,795,737-A	08-18-1998	Seed et al.	
	10.	US-5,797,870-A	08-25-1998	March et al.	
	11.	US-5,859,193-A	01-12-1999	Devare et al.	
	12.	US-5,876,724-A	03-02-1999	Girard et al.	
	13.	US-5,990,091-A	11-23-1999	Tartaglia et al.	
	14.	US-6,090,388-A	07-18-2000	Wang	
	15.	US-6,139,843-A	10-31-2000	Rubinstein et al.	
	16.	US-6,280,989-B1	08-28-2001	Kapitonov et al.	
	17.	US-2003/0138453-A1	07-24-2003	O'Hagan et al.	
	18.	US-6,602,705-B1	08-05-2003	Barnett et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	19.	WO-90/00556	01-25-1990	The Government of the United States of America		
	20.	WO-97/48370	12-24-1997	Merck & Co., Inc.		
	21.	WO-98/12207	03-26-1998	The General Hospital Corp.		
	22.	WO-00/29561	05-25-2000	Statens Serum Institut		
	23.	WO-03/20876	03-13-2003	Chiron Corp.		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	24.	Barnett et al. (June 2001). "The ability of an oligomeric human immunodeficiency virus type 1 (HIV-1) envelope antigen to elicit neutralizing antibodies against primary HIV-1 isolates is improved following partial deletion of the second hypervariable region," <i>J Virol.</i> 75(12):5526-40.	

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	25.	Bolognesi et al. (1994). "NIH conference. HIV vaccine development: a progress report," <i>Ann. Int. Med.</i> 8(7):603-611.	
	26.	Borsetti et al., (1998). "The C-terminal half of the human immunodeficiency virus type 1 Gag precursor is sufficient for efficient particle assembly." <i>Virology</i> 72(11):9313-9317.	
	27.	Brusic et al. (1998). "Prediction of MHC class II-binding peptides using an evolutionary algorithm and artificial neural network," <i>Bioinformatics</i> 14(2):121-30.	
	28.	Burton et al. (1997). "The antibody response in HIV-1 infection" <i>AIDS</i> 11(Suppl. A):S87-S98.	
	29.	Cao et al. (1997) "Replication and neutralization of human immunodeficiency virus type 1 lacking the V1 and V2 variable loops of the gp120 envelope glycoprotein" <i>J. Virol.</i> 71(12):9808-9812.	
	30.	Carter, (1994) "Epitope Mapping of a Protein Using the Geysen (PEPSCAN) Procedure," <i>Methods Mol. Biol.</i> 36:207-23.	
	31.	Chang et al. (August 2000). "Human immunodeficiency virus type 1 subtype E envelope recombinant peptides containing naturally immunogenic epitopes," <i>J Infect Dis.</i> 182(2):442-50.	
	32.	Cheng-Mayer, (1989) "Isolates of human immunodeficiency virus type 1 from the brain may constitute a special group of the AIDS virus," <i>PNAS USA</i> 86:8575-8579	
	33.	Dai, L. C., et al. (1992) "Mutation of human immunodeficiency virus type 1 at amino acid 585 on gp41 results in loss of killing by CD8+ A24-restricted cytotoxic T lymphocytes," <i>J. Virol.</i> 66(5):3151-3154.	
	34.	Davenport et al. (1995) "An empirical method for the prediction of T-cell epitopes," <i>Immunogenetics</i> 42:392-97.	
	35.	Desrosiers, R. C., (2004). "Prospects for an AIDS vaccine," <i>Nat. Med.</i> 10(3):221-223.	
	36.	D'Souza et al., (1997). "Evaluation of monoclonal antibodies to human immunodeficiency virus type 1 primary isolates by neutralization assays: performance criteria for selecting candidate antibodies for clinical trials. AIDS Clinical Trials Group Antibody Selection Working Group." <i>J. Infect. Dis.</i> 175:1056-1062.	
	37.	Earl et al., (1990). "Oligomeric structure of the human immunodeficiency virus type 1 envelope glycoprotein" <i>PNAS USA</i> 87:648-652.	
	38.	Earl et al., (1991). "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins with truncations and deletions expressed by recombinant vaccinia viruses" <i>J. Virol</i> 65:31-41.	
	39.	Feller & De La Cruz, (1991). "Identifying antigenic T-cell sites," <i>Nature</i> 349(6311):720-721.	
	40.	Fenoglio, D., et al., (2000). "Natural analogue peptides of HIV-1 gp120 T-helper epitope antagonize response of gp120-specific human CD4 T-cell clones," <i>J AIDS</i> 23:1-7.	
	41.	Fiore et al. (1994). "The biological phenotype of HIV-1 is usually retained during and after sexual transmission" <i>Virology</i> 204:297-303.	
	42.	Geysen et al. (1984). "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <i>PNAS USA</i> 81:3998-4002.	
	43.	Hopp, (1993). "Retrospective: 12 Years of Antigenic Determinant Predictions and More," <i>Peptide Research</i> 6:183-90.	
	44.	Hu et al., (1992). "Protection of macaques against SIV infection by subunit vaccines of SIV envelope glycoprotein gp160," <i>Science</i> 255:456-459.	
	45.	Instructions to Authors, 2008, <i>J. Virol.</i> 82(1):1-19.	
	46.	Jameson et al., (1988). "The antigenic index: a novel algorithm for predicting antigenic determinants," <i>CABIOS</i> 4(1):1818-1886.	
	47.	Javaherian et al., (1989). "Principal neutralizing domain of the human immunodeficiency virus type 1 envelope protein" <i>PNAS</i> 86:6786-6772.	
	48.	Jeffs et al., (1996). "Antigenicity of truncated forms of the human immunodeficiency virus type 1 envelope glycoprotein" <i>J. of Gen. Virol.</i> 77:1403-1410.	
	49.	Johnson et al. (1991). <i>The Journal of Immunology</i> 147:1512-13 and 1515-1521.	

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50.	Johnson, P. R., et al., (1992). "Identification of overlapping HLA class I-restricted cytotoxic T cell epitopes in a conserved region of the human immunodeficiency virus type 1 envelope glycoprotein: definition of minimum epitopes and analysis of the effects of sequence variation," <i>J. Exp. Med.</i> 175:961-971.	
51.	Kang et al., (1991). "Evidence for non-V3-specific neutralizing antibodies that interfere with gp120/CD4 binding in human immunodeficiency virus 1-infected humans" <i>PNAS USA</i> 88:6171-6175.	
52.	Kolaskar et al. (1990). "A semi-empirical method for prediction of antigenic determinants on protein antigens." <i>FEBS Lett.</i> 276:172-174.	
53.	Kwong et al., (1998). "Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody" <i>Nature</i> 393:648-659.	
54.	Lee et al., (2000). "A single point mutation in HIV-1 V3100p alters the immunogenic properties of rgp120," <i>Arch Virol.</i> 145(10):2087-2103.	
55.	Levitus et al., (1999). "Main features of DNA-based immunization vectors," <i>Brazilian Journal Of Medical And Biological Research</i> 32:147-153.	
56.	Liu, Y., et al., (2006). "Selection on the human immunodeficiency virus type 1 proteome following primary infection," <i>J. Virol.</i> 80(19):9519-9529.	
57.	Lu et al., (1998). "Immunogenicity of DNA vaccines expressing human immunodeficiency virus type 1 envelope glycoprotein with and without deletions in the V1/2 and V3 regions" <i>AIDS Res. Hum. Retroviruses</i> 14(2):151-155.	
58.	Maksyutov & Zagrebelnaya, (1993). "ADEPT: a computer program for prediction of protein antigenic determinants," <i>Comput. Appl. Biosci.</i> 9(3):291-297.	
59.	Mammano et al., (1994). "Role of the major homology region of human immunodeficiency virus type 1 in virion morphogenesis" <i>J. Virol.</i> 68(8):4927-4936.	
60.	Mascola et al., (1994). "Two antigenically distinct subtypes of human immunodeficiency virus type 1: viral genotype predicts neutralization serotype" <i>J. Infect. Dis.</i> 169:48-54.	
61.	Matsushita et al., (1988). "Characterization of a human immunodeficiency virus neutralizing monoclonal antibody and mapping of the neutralizing epitope" <i>J. Virol.</i> 62:2107-2144.	
62.	Matthews (1986). "Restricted neutralization of divergent human T-lymphotropic virus type III isolates by antibodies to the major envelope glycoprotein," <i>PNAS USA</i> 83:9709-9713.	
63.	McDougal et al., (1986). "Binding of the human retrovirus HTLV-III/LAV/ARV/HIV to the CD4 (T4) molecule: conformation dependence, epitope mapping, antibody inhibition, and potential for idiotypic mimicry" <i>J. Immunol.</i> 137:2937-2944.	
64.	McLain, L., et al., (2001). "Different effects of a single amino acid substitution on three adjacent epitopes in the gp41 C-terminal tail of a neutralizing antibody escape mutant of human immunodeficiency virus type 1," <i>Arch. Virol.</i> 146:157-166.	
65.	Meister et al., (1995). "Two novel T cell epitope prediction algorithms based on MHC-binding motifs; comparison of predicted and published epitopes from Mycobacterium tuberculosis and HIV protein sequences," <i>Vaccine</i> 13(6):581-591.	
66.	Montefiori et al., (1999). "Toward an HIV type 1 vaccine that generates potent, broadly cross-reactive neutralizing antibodies" <i>AIDS Res. Hum. Retroviruses</i> 15(8):689-698.	
67.	Moore et al. (1995). <i>Vaccine</i> 13:1741-1749.	
68.	Nara et al., (1988). "Purified envelope glycoproteins from human immunodeficiency virus type 1 variants induce individual, type-specific neutralizing antibodies" <i>J. Virol.</i> 62:2622-2628.	
69.	Palker et al., (1988). "Type-specific neutralization of the human immunodeficiency virus with antibodies to env-encoded synthetic peptides" <i>PNAS USA</i> 85:1932-1936.	
70.	Pantaleo, G., and R. A. Koup, (2004). "Correlates of immune protection in HIV-1 infection: what we know, what we don't know, what we should know," <i>Nat. Med.</i> 10(8):806-810.	

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71.	Peng et al., (1997). "Enhancement or inhibition of HIV-1 replication by intracellular expression of sense or antisense RNA targeted at different intermediates of reverse transcription" <i>AIDS</i> 11:587-595.
72.	Persson, et al. (1998). "Modifications of HIV-1 Retrovirus-like Particles to Enhance Safety and Immunogenicity," <i>Biologicals</i> 26:255-265.
73.	Putney et al., (1986). "HTLV-III/LAV-neutralizing antibodies to an E. coli-produced fragment of the virus envelope" <i>Science</i> 234:1392-1395.
74.	Ratner et al., (1985). "Complete nucleotide sequence of the AIDS virus, HTLV-III" <i>Nature</i> 313:277-284.
75.	Robert-Guroff et al., (1985). "HTLV-III-neutralizing antibodies in patients with AIDS and AIDS related complex" <i>Nature (London)</i> 316:72-74.
76.	Roberts et al., (1996). "Prediction of HIV Peptide Epitopes by a Nova1 Algorithm," <i>AIDS Res. Hum. Retroviruses</i> 12(7):593-610.
77.	Rusche et al., (1988). "Antibodies that inhibit fusion of human immunodeficiency virus-infected cells bind a 24-amino acid sequence of the viral envelope, gp120" <i>PNAS USA</i> 85:3198-3202.
78.	Sanchez-Pescador et al., (1985). "Nucleotide sequence and expression of an AIDS-associated retrovirus (ARV-2)" <i>Science</i> 227(4686):484-492.
79.	Schwartz, et al. (1992) "Mutational inactivation of an inhibitory sequence in human immunodeficiency virus type 1 results in Rev-independent gag expression," <i>J Virol.</i> 66(12):7176-7182.
80.	Stamatatos et al., (1998). "Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV type 1 isolate on viral envelope structure, cell entry, and replication" <i>AIDS Res. Hum. Retroviruses</i> 14(13):1129-1139.
81.	Stamatatos et al., (1998). "The ability of an oligomeric human immunodeficiency virus type 1 (HIV-1) envelope antigen to elicit neutralizing antibodies against primary HIV-1 isolates is improved following partial deletion of the second hypervariable region" <i>J. Virol.</i> 72(10):7840-7845.
82.	Thali et al., (1993). "Characterization of conserved human immunodeficiency virus type 1 gp120 neutralization epitopes exposed upon gp120-CD4 binding" <i>J. Virol.</i> 67(7):3978-3988.
83.	Trkola et al., (1995). "Cross-clade neutralization of primary isolates of human immunodeficiency virus type 1 by human monoclonal antibodies and tetrameric CD4-IgG" <i>J. Virol.</i> 69(11):6609-6617.
84.	Watkins, B. A., et al., (1993). "Immune escape by human immunodeficiency virus type 1 from neutralizing antibodies: evidence for multiple pathways," <i>J. Virol.</i> 67(12):7493-7500.
85.	Weiss et al., (1985). "Neutralization of human T-Lymphotropic virus type III by sera of AIDS and AIDS-risk patients" <i>Nature (London)</i> 316:69-72.
86.	Weiss et al., (1986). "Variable and conserved neutralization antigens of human immunodeficiency virus" <i>Nature (London)</i> 324:572-575.
87.	Welling et al., (1985). "Prediction of sequential antigenic regions in proteins," <i>FEBS Lett.</i> 188:215-18,
88.	Wyatt et al., (1995). "Involvement of the V1N2 variable loop structure in the exposure of human immunodeficiency virus type 1 gp120 epitopes induced by receptor binding" <i>J. Virol.</i> 69(9):5723-5733.
89.	Wyatt et al., (1998). "The antigenic structure of the HIV gp120 envelope glycoprotein" <i>Nature</i> 393:705-711.
90.	Zhu et al., (1993). "Genotypic and phenotypic characterization of HIV-1 patients with primary infection," <i>Science</i> 261:1179-1181.
91.	zur Megede et al., (2006). "Evaluation of human immunodeficiency type 1 subtype C gag, pol, and gagpol DNA and alphavirus replicon vaccines," <i>Vaccine</i> 24:2755-2763.

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	92.	zur Megede et al., (June 2003). "Expression and Immunogenicity of Sequence-modified Human Immunodeficiency Virus Type 1 Subtype B pol and gagpol DNA Vaccines," <i>J Virol.</i> 77(11):6197-6207.	
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